

# **Department of Computer Science:**

**Welcome to Department of Computer Science at St. Joseph's, where students undertake studies that offer a well-rounded education in the science & technology. It is an intensive, hands-on approach to computing that can be applied to almost every facet of life.**

Computer Science is the most exciting, gratifying, and promising field we can pursue, That's why, at St. Joseph's, we believe our Computer Science program should not only educate but also inspire you with the joy of computing. Each strikes a balance between conducting world-class teaching, excelling in education, and training students to become leaders in their field.

The Computer Science Department was established during the year 1997-98 with B.Sc (MPCs), B.Com (Computers) and MCA. During the year 1998-99 the combination of MECs, MSCs in B.Sc were added along with BCA. The Professional Post Graduate Course, MCA was introduced in the year 1999, approved by AICTE.

The CS Department always stood for innovation and leadership in curriculum planning - having one of the oldest and best known courses MCA programme; boldly proposed and introduced the B.Com(IT) programme and BBA(IT) in 2015 to attract the growing number of undergraduates in computer science; and in 2012, introduced the unique Course B.Sc (NHAEM) with specialization in Networking & Hardware, Applied Electronics & Mathematics combination aimed at the growing lack of computer professionals in networking and system Administrators.

The Department is renowned for cutting edge state-of-the-art and quality education since its inception. The Department is also known for facilitating the quality education to the highest and conducting various curricular and extra-curricular activities to make students excel in every field of study, through Interaction with Board of Studies, Bridge Courses, Value-added Courses, Experiential Learning, Certificate Courses, Seminars & Guest Lectures, Peer group learning, Problem Solving Skills and Social Service Activities.

Computer Science Department epitomizes excellence in all major functions associated with higher learning such as teaching, student development and curriculum planning. The strengths of the Department are its quality faculty, innovative and flexible curricula with their unique focus on post-graduate education, state-of-the-art facilities with remarkably high and open transparent policies that foster a healthy student-faculty interaction.

With nearly 85% of the faculty possessing a Higher Graduate degrees and considerable experience in teaching in conjunction with a relatively young in age, the Department rightfully boasts of a faculty profile that is young, vibrant and matching the best standards of today's Competitiveness like the exposure to the latest technologies and research leading to publications in major journals/conferences and accessibility to high-end computing facilities, etc,. A consistent number of paper presentations / publications and FDPs were taken part by the faculty members of the department.

The Department maintains active contacts with both industry and research labs and participates in developing the state-of-art computing systems. Department has signed MoUs with BSNL – Regional Telecom Training Center, Gachibowli, Hyderabad, Verticle Technologies Ltd, Hyderabad, Jetking Ltd, Hyderabad to promote research, internship and teaching Programmes.

The Strength in department drives our curricula which are carefully designed mixes of core courses and electives. The core courses impart a rigorous foundation so that every student is technically competent while the varied choice of electives allows individuality for students to keep abreast of the

latest technological innovations and specialize in their areas of interest. Moreover, students are encouraged by the design of the curriculum itself to select inter-disciplinary courses and gain a broad-based perspective of the field. The curriculum is continually monitored and updated as and when necessary.

The CS Department adopted the CBCS and Grading system for evaluation and also has a system for collecting and analyzing student feedback on course structure, content, delivery and evaluation. The teaching methods further reflect our pursuit of excellence. Classrooms are well-equipped with LCD projectors for courses that benefit from the use of live demonstrations and computer presentations to blackboards for those that require greater flexibility in pace and structure of lecture delivery. Web-based materials, assignments, case studies, projects, poster making, animated videos, are also used to experimentally deliver the contents.

Our laboratories also reflect the unique dichotomy of our curricula with general-purpose ones for core subjects and several specialized ones such as networking lab, SPSS lab and computational intelligence lab for the newest electives. Access to such laboratories is provided to students and faculty on all working days.

The seeds of a radical shift of emphasis and broadening of scope of Department were sown under the leadership of Mrs. M. Kiran Jyothi, Head of Department. The Department now has responsibility within the College for all academic aspects of computing; for teaching, for technical assistance in entire campus, for trouble shooting issues, for basic collaboration with other departments and with industry on applied research. Department's involvement in major tasks like maintenance of College Website, College Face book page, Checking and maintaining the College official mail id, administering online feedback from students every semester, maintaining the attendance software issues and training to entire college, network related issues, maintenance and purchases of IT infrastructure facilitates like PCs, LCDs, monitors, Projectors, etc.,

A variety of extra-curricular activities brings CS undergraduates together, too. We have ComputerClub, working actively since years to build the gap between the technology innovation and learning perspective. We organized and took part in seminars and guest lectures for students and faculty. We organized field visits to Defence Research & Development Organization (DRDO) Hyderabad, Indian Space Research Organization (ISRO) Sriharikota for different groups of students. We encourage Joseph's Information Lab & Design Space for students to work innovatively. It's a 24/7 student-run workshop, complete with power tools, disassembled computers, networking assistance, and plenty of energy and conversation.

The Department continues to grow in giving services to the college management by serving in various committees and positions. Mrs. M. Kiran Jyothi, HoD serving as Additional Controller of Examinations and Mrs. T. Esther Ratna, Assistant Professor serving as Dean – Administration of the College.

Students come from all over the country and the Department is beginning to attract the attention of National & International Students. The diversity of the student community and the technical strength of the different programmes are recognized by many distinguished multi-national and other high-end companies that find our students technically superior with excellent problem-solving skills and great cultural awareness.

Alumni of our MCA, B.Sc and B.Com programs land jobs at top technology companies—such as Google, Infosys, Wipro, Microsoft — or are hired by major employers in the financial, entertainment, health care, or defense industries, among others.

The students in our program are outstanding in their own right. Undergraduates in the Computer Science Department consistently matriculate at the top of their performances in entire class. Graduated students got placed among premier universities across the globe.

## **VISION**

To groom the students into world class Computer Professionals.

## **MISSION**

- ✓ To impart quality computer education to enhance logical computing and programming skills.
- ✓ To implement innovative techniques and processes in teaching - learning and evaluation.
- ✓ To further creativity and pursuit of excellence in computer applications.
- ✓ To sensitize a culture of trust, fairness, tolerance and positive orientation.
- ✓ To build life skills through value-based education and service-oriented programme.

## **Certificate Courses Offered**

- Dynamic website development
- MS-Excel

## *Best Practices( Best 3 Events )*



**Venue** : Joseph's Hall  
**Date** : 9th Aug 2017  
**Time** : 9:00AM - 4:00PM  
**Organized by** : Department of Computer Science  
**Faculty Coordinators** : Mrs. V. Shailaja, Asst.Prof, Dept. of Computer Science.  
Mrs. C. Swathi, Asst.Prof, Dept. of Computer Science.  
**Target Group** : I Year UG Students of B.Sc (M.P.Cs/M.E.Cs/M.S.Cs),  
B.Com(Gen), B.Com(Comp), B.Com(Hons), B.Com (IT),  
B.Com(IFA), B.Com(Prof), B.B.A, B.B.A(IT),  
B.B.A(Business Analytics).

### **Report:**

The Inaugural session of the Computer Fair "Informatique Exhib-2017" started by welcoming the dignitaries Rev.Fr.Vincent Arokiadas -Principal, Rev.Fr.Solomon -

Correspondent, Mrs. M. Kiran Jyothi - HoD, Computer Science, Mrs. T. Esther Ratna - Dean onto the dais by Mrs. Shailaja.

- The Session began with the prayer by Rev.Fr.Vincent Arokiadas - Principal and was open for exhibition.
- Rev.Fr.solomon - correspondent, addressed the gathering. He appreciated the participants and also the Dept. of Computer Science for conducting such an event.
- Mrs. M. Kiran Jyothi -HoD of Computer Science quoted that this event enhances the student's knowledge beyond the curriculum and gives exposure to latest happenings in the field of computer science.

43 teams from the first year students of all streams participated in this event.

The participants selected exhibits from various categories like Software, Hardware and Networking and prepared the following:

- A model of the exhib.
- A chart explaining the exhibit device and working of the device or a presentation
- Some participants exhibited the working model.



### Industrial Visit to ISRO, Sriharikota, Nellore

Department of Computer Science Organized a one day Industrial Visit to ISRO, Sriharikota on 11<sup>th</sup> September 2015 for the students of B.Sc first, second and third year and B.Com third year. The visit started on 10<sup>th</sup> Sep 2015 at 7PM from Hyderabad by Telangana Tourism Bus and reached the next day on 11<sup>th</sup> September 2015.

Two faculty members, the bus crew (2 drivers) accompanied 31 students to visit ISRO. After all the formalities, security checks, authentication process to enter the Satish Dhawan Space Centre (SDSC), Sriharikota Range (SHAR) is finished the visit started around 11AM and continued till evening 6PM.

We visited all the facilities available in SDSC- SHAR accompanied by 3 Guides, starting from Space Museum, the SDSC Library, the Mission Control Center where the satellite operations for launching happens, followed by propellant filling stations, first launching pad, second launching pad, Satellite Signal station, the forest range, wild life sanctuary and the sea around the island of SHAR.

The security standards inside SHAR are very strict, where the mobile phones, cameras, transistors, recorders or any other communication gadgets were not allowed to carry us. When we are visiting all the facilities at SHAR it took at least 6 to 8kms from one facility to the other. So it was around 50 to 65kms that we visited all the facilities inside SHAR.





As one of the employees of SHAR came as a guide with our College we are given a special permission to few of our students and the faculty members to visit the top floor of the second launching pad (62<sup>nd</sup> floor) and view the whole tower with all the instrumentations ready for assemble the rocket and satellite. That's an amazing experience for everyone who went up to see the launching pad.

We had our breakfast, lunch and snacks at Aryabatta Canteen in SHAR ordered before the visit commences and the food was very hygienic and tasty. We started back from SHAR at 7.30PM in the evening with an overnight journey we reached Hyderabad at 12PM on 12<sup>th</sup> Sep 2015. It was a very adventurous, technological and wonderful experience for all us who accompanied the Visit.

### Visit Details:

- **Visit Coordinator** : Mrs. P. Madhuri Paul, Asst. Professor
- **Faculty Accompanied** : Mr. Henry Austin, Librarian
- **Amount per student** : Rs. 3000/-
- **No. of Students visited** : 31 Students
- **Courses** : B.Sc (MPCs/MSCs/MECs) – I/II/III Year & B.Com (Comp) – III Year
- **Bus Crew** : One bus pilot and one driver
- **Guides from ISRO** : 3 Guides
- **Total Kilometers Travelled** : 1215kms
- **Total no. of hours** : 44 hours (One day, 20 hours)

## National Conference on Revolutionalising Business practices in Digital Era (NCRBD)



**Date** : 29th Nov 2016

**Venue** : Jubilee Hall

**Topic** : [Revolutionalising Business Practices in Digital Era](#)

Department of Computer Science has organized a One Day National Conference on **Revolutionalising Business Practices in Digital Era** which was jointly organized by St. Joseph's Degree & PG College and IRD India.

The objective of the conference is to bring together academicians, corporate persons, research Scholars, students and practitioners in the field of Management and Information



Technology to a common forum to explore the transformations in Management Practices and Technology in Information age that promotes research and developmental activities in the areas of Business Management and Information Technology.



